

## ABSTRACT

The invention relates to a fibre-reinforced pressure vessel (1, 6) comprising a rigid gas-  
of fluid-tight body (2, 7, 13, 19) overwound with fibre filaments (3, 10, 11, 18), whereby the fi-  
5 bre filaments are wound such that at least a number of fibre filaments can freely move with  
respect to one another and when the pressure vessel is under internal pressure the fibre fila-  
ments are loaded exactly in their longitudinal direction.

The invention also relates to a method of manufacturing a fibre-reinforced pressure  
vessel whereby no matrix material (for example, resin) is used so that at least a number of fibre  
10 filaments would be incorporated in a matrix for that section of the pressure vessel in which the  
fibre filaments can freely move with respect to one another.

Fig. 2.